

Thorlabs 532nm Alignment Laser

Thorlabs information URL:

https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=1487

Ordering Information:

CPS532-C2 Collimated Laser-Diode-Pumped DPSS Laser Module, 532 nm, 0.9 mW, Round Beam, Ø11 mm Housing

Cost: \$172.06

Availability: Today

Product Details

CPS532-C2 - Collimated Laser Diode Module, 532 nm, 0.9 mW, Round Beam, Ø11 mm Housing



Specifications

Typical Spectrum

Drawing

General Specifications

Characteristic

Housing Material	Aluminum
Housing Dimensions	Ø11.0 mm x 72.8 mm
Beam Size ^a	Round, Ø3.5 mm
Operating Temperature	10 to 40 °C
Storage Temperature	-30 to 70 °C
Operating Voltage	4.9 V to 5.2 V
Laser Safety Class	2
Individual Data Sheet ^b	Yes
Mounting Adapters	AD11BA , AD11F , AD11NT , KAD11F , KAD11NT
Compatible Power Supply (Not Included)	LDS5 , CPS1

a. The beam size was measured at a distance of 2" (50.8 mm) from the front of the housing.

b. This product ships with individual test data sheet that includes the center wavelength, power stability, and operating current.






Optical Electrical Characteristics

Characteristic	MIN	TYP	MAX	UNIT
Wavelength	531	532	533	nm
Optical Output Power (CW)	0.8	0.9	1.0	mW
Polarization State Extinction Ratio	-	5	-	dB
Power Stability (8 Hours)	-	-	5	%
Power Stability (1 Minute)	-	-	2	%
Axis Deviation ^a	-	-	5	mrاد
Beam Divergence	-	-	0.5	mrاد
Operating Current (CW)	-	120	200	mA

a. Max Axis Deviation is the parallelism between the module housing and the output beam.

Laser Modules: 405 nm - 532 nm

Click Image for Full View (Not to Scale)					
Item #	CPS405	CPS450	CPS520 ^a	CPS532 ^b	CPS532-C2
Type	Fixed	Fixed	Fixed	Fixed	Fixed
Wavelength (Typical)	405 nm	450 nm	520 nm	532 nm	532 nm
Power (Typical)	4.5 mW	4.5 mW	4.5 mW	4.5 mW	0.9 mW
Laser Safety Class	3R	3R	3R	3R	2
Beam Shape ^c (Click for Profile)	3.8 mm x 1.8 mm	3.2 mm x 1.0 mm	4.6 mm x 1.7 mm	Ø3.5 mm	Ø3.5 mm
Housing Dimensions	Ø11.0 mm x 40 mm	Ø11.0 mm x 40 mm	Ø11.0 mm x 40 mm	Ø11.0 mm x 72.8 mm	Ø11.0 mm x 72.8 mm
Specifications					

Docs	Part Number - Universal		Price	Available
	CPS405	Collimated Laser Diode Module, 405 nm, 4.5 mW, Elliptical Beam, Ø11 mm Housing	\$204.52	Today
	CPS450	Collimated Laser Diode Module, 450 nm, 4.5 mW, Elliptical Beam, Ø11 mm Housing	\$234.82	Today
	CPS520	Collimated Laser Diode Module, 520 nm, 4.5 mW, Elliptical Beam, Ø11 mm Housing	\$204.52	Today
	CPS532	Collimated Laser-Diode-Pumped DPSS Laser Module, 532 nm, 4.5 mW, Round Beam, Ø11 mm Housing	\$172.06	Today
	CPS532-C2	Collimated Laser-Diode-Pumped DPSS Laser Module, 532 nm, 0.9 mW, Round Beam, Ø11 mm Housing	\$172.06	Today

Mounting Hardware and Power Supply

Laser Module Mounting Kit



- Includes All Necessary Mounting Hardware and Power Source
- Compatible with Our Range of Laser Modules
 - CPS08K(-EC): Ø8 mm Module Housing
 - CPS11K(-EC): Ø11 mm Module Housing
- LDS5(-EC) 5 VDC Power Supply Included

These Laser Module Mounting Kits contain all of the components needed to mount and power our laser modules (i.e., a power supply with a selectable line voltage of 115 V or 230 V, a location-specific power cable, and a hex key to secure the laser module to the mount). For Ø8 mm

housings, choose the CPS08K(-EC) kit, and for Ø11 mm housings, choose the CPS11K(-EC) kit.

[Zoom](#)











[Click to Enlarge](#)
CPS650F Mounted on a CPS11K Kit

Mounting Kit Components				
Item #	CPS08K	CPS08K-EC	CPS11K	CPS11K-EC
Laser Module Mounting Adapter	AD8F		AD11F	
Kinematic Mirror Mount	KM100T			
Ø1/2" Post	TR3	TR75/M	TR3	TR75/M
Ø1/2" Post Holder	PH3	PH75/M	PH3	PH75/M
Mounting Base	BA2	BA2/M	BA2	BA2/M
Power Supply	LDS5	LDS5-EC	LDS5	LDS5-EC

Please see the table in the upper right for a list of components included in each mounting kit. For alternate mounting options, please see our selection of mounting adapters above (adapters compatible with this kit must be externally SM1 threaded). For individual power supplies, including a 5 VDC external battery pack, see below.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Imperial	Price	Available
	<input type="text"/>		CPS08K Customer Inspired! Ø8 mm Laser Diode Module Mounting Kit, 120 V	\$216.42	Today
	<input type="text"/>		CPS11K Customer Inspired! Ø11 mm Laser Diode Module Mounting Kit, 120 V	\$217.51	Today

+1	Qty	Docs	Part Number - Metric	Price	Available
	<input type="text"/>		CPS08K-EC Customer Inspired! Ø8 mm Laser Diode Module Mounting Kit, 230 V	\$216.42	Today
	<input type="text"/>		CPS11K-EC Customer Inspired! Ø11 mm Laser Diode Module Mounting Kit, 230 V	\$217.51	5-8 Days